Movement detector.
For the pleasant feeling of safety.

Busch-Watchdog. These innovative and high-quality optical detection systems by Busch-Jaeger simply make life more comfortable. They are alert, helpful, efficient. And they automatically manage many tasks in every sector of the building. Inside and outdoors. When it comes to safety, they know precisely when the light is needed. And other functions such as heating, blinds and air-conditioning are precisely, intelligently and reliably controlled.

01

Movement detector

01 Busch-Watchdog 220 MasterLINE,
Colour: white, with anthracite-coloured lens,
incl. IR remote control,
Article-No.: 6847/8 AGM-204-500

02 Busch-Presence detector KNX,
Colour: white, Article-No.: 6131/31-24

03 Busch-Presence detector mini KNX,
Colour: white, Article-No.: 6131/21-24

04 Busch-Watchdog 110 MasterLINE,
Colour: white, Article-No.: 6855 AGM-204-500

05 Busch-Watchdog Presence tech
BasicLINE Corridor, Article-No.: 6818 U-500

06 Busch-Watchdog 180 flush-mounted
comfort sensor, Switch series solo®,
Colour: studio white

07 Busch-Comfort switch,
Switch series solo®, Colour: studio white

08 Busch-Watchdog ProfessionalLINE

Contents
Movement detector

Busch-Watchdog, surface-mounted p. 418
Busch-MasterLight® p. 424
Presence detector p. 424
Busch-Watchdog presence inserts p. 429
Busch-Watchdog flush-mounted/sensors p. 430
Busch-Comfort switch p. 434
Twilight switch p. 435

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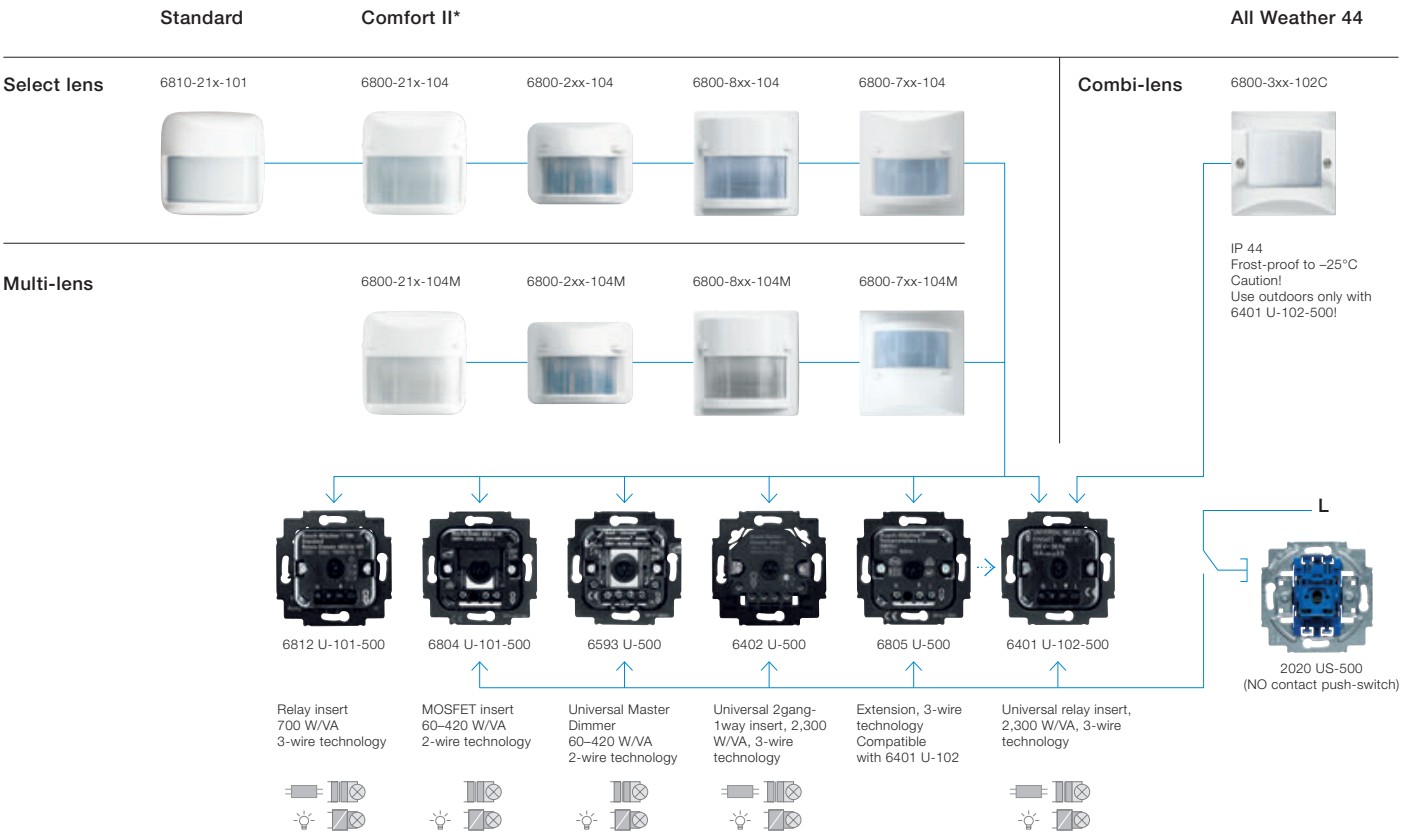
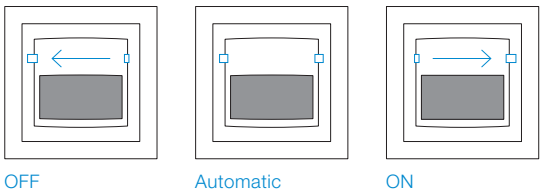
This switch can sense your needs.

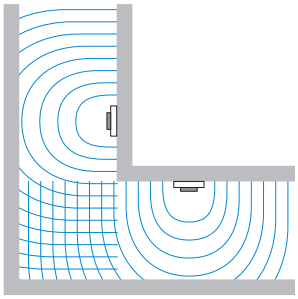
Selection guide: the Busch-Watchdog flush-mounted range



*Switch-off behaviour: In combination with 6593 U (soft OFF function), the Comfort II sensor dims and switches off within 60 seconds.



Slide switch.
Always on, allways off, or automatic mode can be individually selected using the slide switch. Optionally, the slide switch can be fixed to automatic mode using a screw on the back side, e.g. in public buildings.



Application of main and auxiliary units.
If more than only one movement detector is requirement, additional movement detectors can be installed using extension inserts. This makes sense, for example, in the case of L-shaped corridors.

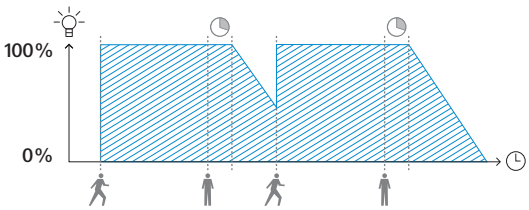
Hands free for the important things
Busch-Watchdog 180, flush-mounted

The convenient home help.
The flush-mounted Busch-Watchdog 180 is the ideal movement detector for the stairwell, hall, bathroom and large rooms without a clear overview. It responds as soon as it registers body heat. And leaves no one standing in the dark. It offers a large range of effectiveness, especially during a frontal approach. As soon as someone enters the door, the switching process is triggered. And it automatically switches off again when the person exits the room.

The convenient combination:
The movement detector and dimmer of ABB/Busch-Jaeger do not suddenly leave you in the dark.

Flush-mounted insert: Dimmer 6593 U-500

Busch-Watchdog sensor: 6800-xx-104M



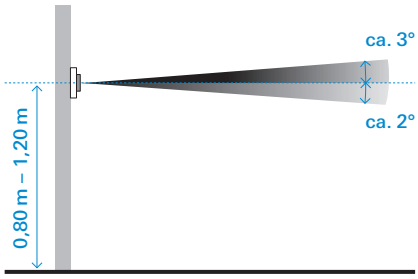
Light whenever needed.
The flush-mounted Busch-Watchdog 180 Comfort does not switch the light off suddenly but, in connection with a Busch-Dimmer®, dims it slowly within a period of 60 seconds. It does this as soon as it no longer detects movement and the set switch-off delay has expired. This switch-off warning means that one does not immediately stand in the dark but has the opportunity to move into the detection range which then switches back to 100% brightness.

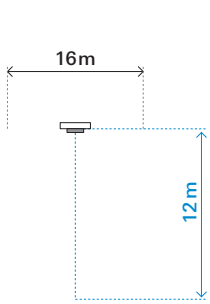
Additional information is available in our range and products brochure.

Brochure:
Busch-Watchdog
0001-0-1363
Brochure:
Busch-Watchdog
Presence tech
0001-0-1259

Reliable and uninterrupted surveillance.

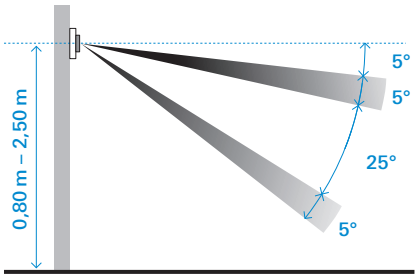
Select lens

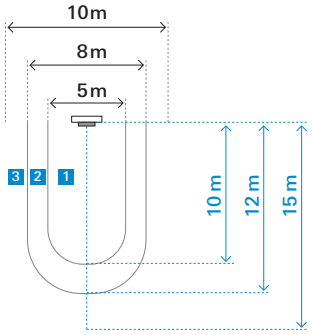




Mounting height of 0.80 m to 1.20 m.

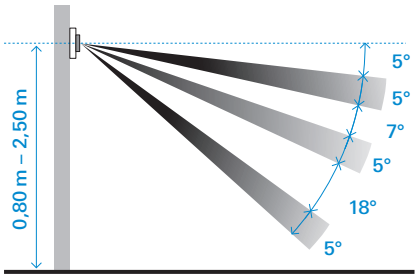
Multi-lens

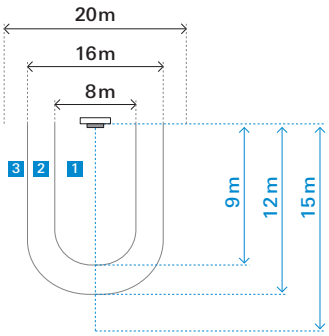




1 Mounting height of 1.20 m.
2 Mounting height of 2 m.
3 Mounting height of 2.50 m.

Combi-lens





1 Mounting height of 1.20 m.
2 Mounting height of 2 m.
3 Mounting height of 2.50 m.

The optimum shape.
A flush-mounted movement detector must match perfectly with its surroundings while at the same time reliably fulfilling its detecting function. The flush-mounted Busch-Watchdog 180 Standard and the flush-mounted Busch-Watchdog 180 Comfort are optimally designed for this. Not too flat and not too high. Nothing escapes their notice. The flush-mounted Busch-Watchdog 180 Standard is available in the design of the Reflex SI Linear switch range. The flush-mounted Busch-Watchdog 180 Comfort on the other hand is available in almost all Busch-Jaeger switch ranges. It additionally has a comfortable sliding switch for individually setting the light control.

Everything under control.
The flush-mounted Busch-Watchdog 180 offers a large range of effectiveness, especially during a frontal approach. As soon as someone enters the door the switching process is triggered. It switches off automatically when exiting. The detection angle is 180° and extends laterally up to the wall. In spite of its compact dimensions it has a transmission range of 12 m frontal and, depending on the model, from 5 to 8 m lateral. Depending on the spatial conditions, the connection of an additional movement detector is recommended, which is connected as extension unit. For example, when an area that does not lie within the detection range is accessed.

Intelligent combination.
The flush-mounted Busch-Watchdog 180 Comfort in connection with a Busch-Dimmer® does not switch the light off suddenly, but dims it slowly within a period of 60 seconds. The switch-off delay time and twilight value can be flexibly set, it is freely selectable up to 30 minutes.

Three lenses for each surveillance situation.
Depending on design and application the Busch-Watchdog models have three different lenses: select lens, multi-lens and combination lens. With the select lens, for example, domestic animals are not detected in the lower area, the multi-lens also detects persons that are on the stairs and the combination lens detects every angle of the surveillance area.

The right model for each task.

The select lens.
Monitors an area above approx. 1.20 m. Small animals are therefore not detected.

Mounting height: 0.80 m to 1.20 m

Detection zone: 12 m frontal, 8 m to each side

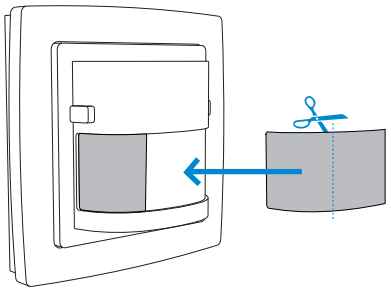
The multi-lens.
Due to its detection range it also detects persons on a staircase.
Mounting height: 1.20 m
Detection zone: 10 m frontal, 2.50 m to each side
Mounting height: 2 m
Detection zone: 12 m frontal, 4 m to each side
Mounting height: 2.50 m
Detection zone: 15 m frontal, 5 m to each side

The combination lens. (Only All Weather 44)
Makes possible the largest detection of the area to be monitored.
Mounting height: 1.20 m
Detection zone: 9 m frontal, 4 m to each side
Mounting height: 2 m
Detection zone: 12 m frontal, 8 m to each side
Mounting height: 2.50 m
Detection zone: 15 m frontal, 10 m to each side

01 02

01 Busch-Watchdog 180 flush mounted standard sensor

02 Busch-Watchdog 180 flush mounted comfort sensor



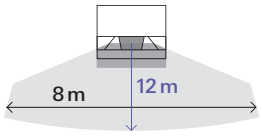
Reducing the detection range of the Busch-Watchdog with the covering foil.

Busch-Watchdog surface-mounted

Overview of Busch-Watchdog, surface-mounted, detection zones

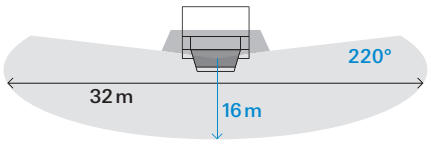
Busch-Watchdog
70 MasterLINE
6854 AGM-204-500

Busch-Watchdog
110 MasterLINE
6855 AGM-204-500



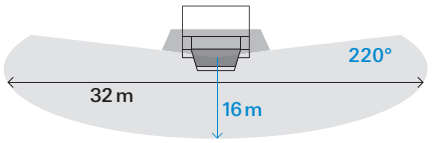
Busch-Watchdog
220 MasterLINE
6847/11 AGM-204-500

Busch-Watchdog
220 WaveLINE
6847 AGM-204-500

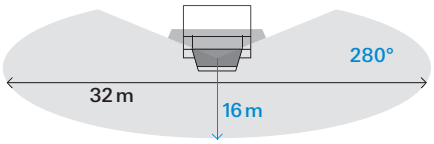


Busch-Watchdog
220 MasterLINE KNX
6179/01-204-500

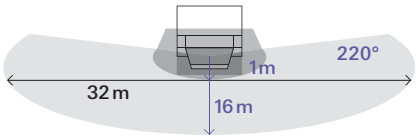
Busch-Watchdog 220 MasterLINE
KNX premium
6179/02-204-500



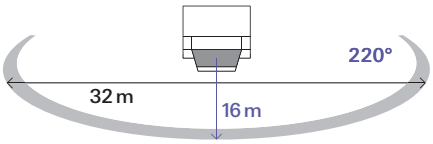
Busch-Watchdog
280 MasterLINE
6867 AGM-204-500



Busch-Watchdog
220 MasterLINE premium.
6848 AGM-204-500



Busch-Watchdog
220 MasterLINE select.
6847 AGS-204-500



Overview Busch-Watchdog serface-mounted

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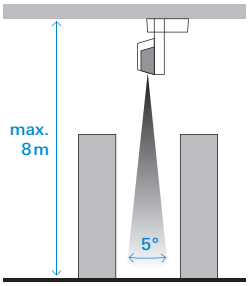
01 Busch-Watchdog 70 and 110 MasterLINE, white
02 Busch-Watchdog 70 and 110 MasterLINE, anthracite
03 Busch-Watchdog 70 and 110 MasterLINE, brown
04 Busch-Watchdog 70 and 110 MasterLINE, silver metallic

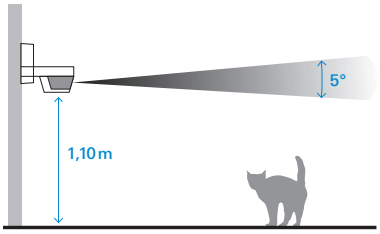
05 Busch-Watchdog 220 and 280 MasterLINE, white
06 Busch-Watchdog 220 and 280 MasterLINE, anthracite
07 Busch-Watchdog 220 and 280 MasterLINE, brown
08 Busch-Watchdog 220 MasterLINE, silver metallic, incl. IR remote control
09 Busch-Watchdog 220 MasterLINE, white, lens anthracite
10 Busch-Watchdog 220 ProfessionalLINE

The angle is what matters.
Mounting and detection ranges.

Busch-Watchdog 220 MasterLINE *select*

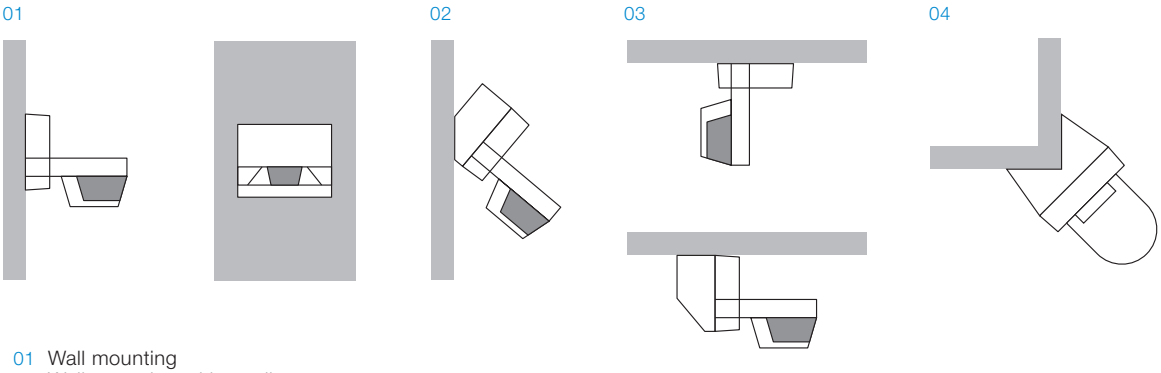


Precise surveillance.
Aside from horizontal mounting, which is ideally suited for the surveillance of houses, properties and parking areas, also vertical mounting is possible. This also allows warehouse thoroughfares on large industrial sites to be monitored so precisely that areas are illuminated only when being approached.



Sees everything.
Except small animals.
Practical for the surveillance of outdoor areas: At a mounting height of 1.10 m with a horizontal alignment small animals are not detected by the Busch-Watchdog 220 MasterLINE select.

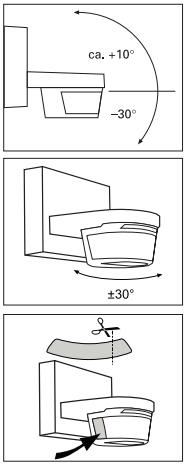
Mounting possibilities

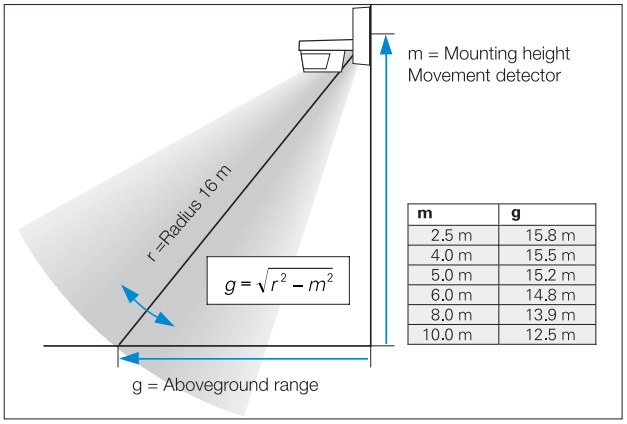


01 Wall mounting
02 Wall mounting with gradient
03 Ceiling mounting with and without corner adapter
04 Corner mounting (using the corner adapter) Busch-Watchdog 280 MasterLINE

Setting the transmission range

›› Regulation of the range due to turning, switching, or partially covering
›› The optimum mounting height is 2.50 m.
›› Automatic range stabilisation for the Busch-Watchdog 70/110 MasterLINE





m	g
2.5 m	15.8 m
4.0 m	15.5 m
5.0 m	15.2 m
6.0 m	14.8 m
8.0 m	13.9 m
10.0 m	12.5 m

Extra versatile.
Busch-Watchdog 220 WaveLINE.

Special functions of the Busch-Watchdog 220 WaveLINE.
This model was designed especially for living concepts and additionally offers the technology of the Busch-Watchdog 220 MasterLINE. Since it operates with radio signals, the functions of the sensors and actuators are spread over both devices. The sensor can be mounted in any location - preferably where it has the best overview. Several Busch-Watchdog 220 WaveLINE can be assigned to a single actuator. This allows angled and hilly areas to be completely monitored. The device operates without cables. Its operation is especially economical because the high-performance batteries last up to ten years. If it detects a movement, it radios the switch-on signal to the built-in actuator, which can even be installed in a deep flush-mounted socket outlet underneath a push-button. The battery test is carried out on the device. The transmission of a low-battery telegram is possible.

Even without the supply voltage, movement can be reliably detected.
The battery-operated Watchdog sensors can be mounted in any terrain.

Additional information is available in this catalogue in chapter ‘Remote control’.

- For properties without a clear overview
- Cableless retrofitting
- Radio control for ideal positioning in the detection range
- Detection and status display
- Battery operated for line-independent mounting

01 Busch-Watchdog 220 WaveLINE
Article-No.: 6747 AGM-204
02 LED display WaveLINE
Article-No.: 6730-xx auf 6404 U
03 Built-in receiver WaveLINE
Article-No.: 6701-101

›› It is possible to display the detection of a movement using an LED on the Busch-Watchdog.

Presence detector.

01 2gang 1way insert
Article-No. 6402 U-500
02 Presence tech DualLINE
Article-No. 6813/11-xx-500
03 Rocker switch 2gang

The Busch-Watchdog Presence tech DualLINE additionally has a
» Comprehensive logic function
» Partition wall function
» Scene module

Application example: DualLINE presence detector
Today, presence detectors are a vital part of all publicly and commercially used buildings and result in great savings. The new Busch-Watchdog presence dualLINE. It doesn't just monitor, it also offers many useful additional functions.

›› Control two independent lighting rows by only one presence detector dependent on daylight.
›› Either fully automatic or semiautomatic mode: activation and deactivation is controlled only by the presence detector or activation is controlled by a push-switch, while deactivation takes place automatically.
›› In fully automatic operation, the presence detector can be switched to continuous OFF using the push-switch; activation using the push-switch is possible at any time.
›› Manual continuous lighting is possible via push-switch: the automatic return to automatic mode takes place when no more movement is detected.

Busch-Watchdog presence tech DualLINE
Mounting heights
» The characteristics of detection depend on the mounting height
» As the mounting height increases, the sensitivity and detection density decrease

Mounting height	Seated persons*	Walking persons
2.0 m	4 m	8 m
2.5 m	6 m	10 m
3.0 m	8 m	12 m
3.5 m	10 m	14 m
4.0 m	12 m**	16 m
5.0 m	16 m**	20 m
> 5.0 m	-	20 m***

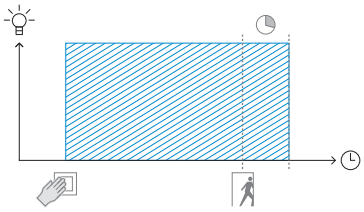
* Seat height: 1 m.
** No longer suitable for pure "Desk activities" or switch-off delay > 15 min.
*** Mounting in sports facilities for detection of movement up to 8 m possible

These presence detectors are complete devices with integrated relay.

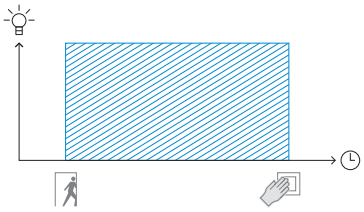
	BasicLINE mini 6811 EB	BasicLINE 6814 U	BasicLINE Corridor 6818 U	Busch-Watchdog BasicLine 6844 AGM-204-500
Detection range at tangential movement (ø at 2.5 m installation height)	6 m	7 m	24 m	12 m
Connection for push-button		X	X	X
Semi-automatic or automatic		X		
IP 54 (only with surface-mounted housing 6888)			X	X
Remote control 6843			X	

Perfect support
Busch-Comfort switch

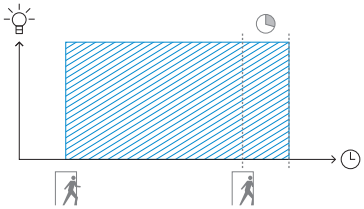
Functional and attractive. The elegant Busch-Comfort switch can be operated just like a normal light switch. However, it offers interesting functions which have not been available in this combination in a device up to the present. Switching contactless, manually or time controlled: The Busch-Comfort switch demonstrates what is expected of technology today.



Time comfort.
Manually on, but switching off automatically.
For stairwells as staircase light timer switch. You come home and the light is still on because someone else just came through the corridor. After a few steps you are suddenly in the dark because the set time has expired. The innovative Busch-Watchdogs reliably prevent such, at times dangerous, situations from occurring. They register again when a person is in the corridor and start the selected switch-off delay anew.

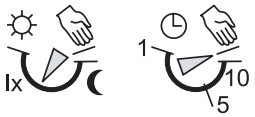


Medium comfort.
Automatic on, but switching off manually.
The angled cellar or workroom. Busch-Comfort switches turn on the light automatically and leave it switched on as long as you need it. If you do not move or you temporarily leave the detection range, the light remains switched on. This allows you to concentrate on your work and decide yourself when it needs to be dark again.



Maximum comfort.
Never switch by hand again.
For transit rooms such as corridor, cellar and toilet. The light is switched on automatically when someone enters the detection range. The switch-off delay can be selected between one to ten minutes. Special safety: If a person again passes through the detection range, the timer setting starts anew from the beginning. Also the brightness threshold from which the light switches itself on can be adapted to the prevailing conditions. This gives you freedom and flexibility - even when the light conditions change. Busch-Comfort switch relay inserts can also be switched in parallel.

Setting options on the back of the control element



Operating mode 1
The lighting is switched on at detection and automatically off.

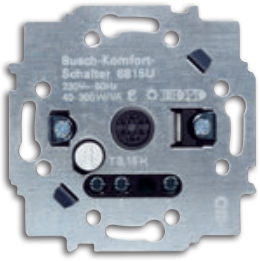
Operating mode 2
Switching on manually, and off automatically.

Operating mode 3
Switching on at detection, and off manually.

Note
The comfort switch changes between selected and manual operating mode with a long press of the button.

The flat lens is available in various finishes tones and matches the colour of the rocker switch.

01



02

01 Busch-Comfort switch insert (6815 U)
2-conductor connection
02 Busch-Comfort switch relay insert (6816 U)
3-conductor connection

Elegance and intelligence
Busch-Comfort switch

Always a solution that convinces.
The Busch-Comfort switch offers different comfort stages for each requirement. For example, it can be used as fully automatic. In this case it switches the light on and off independently when a movement is registered. And the semi-automatic version leaves the light on until it is switched off manually.

Always at the right time.
Busch-Comfort switches also operate ideally as automatic time control. With this version the light is switched with the press of a button and switched off again after a pre-programmed time if no movement is registered. Of course, they can also be used as a normal light switch that only responds to manual operation.

Informative and stylish.
The integrated sensor does not catch the eye because of its flat construction. And an LED in the lens informs everyone who enters or leaves the room that the light switch must be operated manually. Very useful. The LED at the same time serves as a light for orientation and is therefore a safe signpost in the dark. Aside from their technical qualities the Busch-Comfort switches are also beautiful. Their design impresses with straight-lined, timeless elegance and matches every living room concept. It is available in almost all Busch-Jaeger switch ranges.

Module principle of the electronic inserts and control elements

	Flush-mounted insert	Switching/dimming capacity	Timer control element		Unit	
			Comfort timer control element 6455-101-500	Standard timer control element 6456-101	Busch-Watch-dog presence tech DualLINE 6813/11-xxx	Busch-Watch-dog presence tech 6813-xxx-101
Switching	Universal Relay Switch Insert 6401 U-102	2300 W/VA All loads 10 AX	X Timer with main-tained contact (for switching lights, pumps etc.)		X*) (either semi-automatic or fully automatic operation)	X*)
	Universal 2gang-1way Insert 6402 U	2300 W/VA All loads 10 AX			X*) (for controlling two independent lighting rows)	X*) (Heating, air conditioning, ventilation func-tion, Output 2 with switch-on/ switch-off delay in relation to Output 1)
	Relay Switch Insert 6812 U-101	700 W/VA All loads 3 A			X*) (fully automatic operation only)	X*)
	MOSFET Insert 6804 U-101	60–240 W/VA, 230 V incandescent and halo-gen lamps, low-voltage halogen lamps with or Busch-electronic transformers			X*) (either semi-automatic or fully automatic operation)	X*)
	Extension Insert 6805 U	Active Watchdog extension for 6401 U-102, 6402 U, 6804 U-101, 6593 U, and 6550 U-101			X*)	X*)
Dimming	Universal Master Dimmer Insert 6593 U	60–420 W/VA, increase with 6594 U up to 735 W/VA 230 V incandescent and halogen lamps, low-voltage halogen lamps with conventional or Busch-electronic transformers	X (Timer with ad-justable bright-ness values)		X*) (constant light regulation, either semi-automatic or fully automatic operation)	X*) (constant light regulation)
	LED-Touch dimmer insert 6524 U		X		X*) (constant light regulation, either semi-automatic or fully automatic operation)	X*) (constant light regulation)
	Memory Touch-Type Controller 6550 U-101	ECG = 0/1–10 V, LEDs with ballast units, 700 W/VA, higher contact load possible with external relay, 50 mA control current	X (Timer with ad-justable bright-ness values)		X*) (constant light regulation, either semi-automatic or fully automatic operation)	X*) (constant light regulation)
	Memory 2gang Dimmer 6565 U	2 x 40-315 W/VA, 230 V incandescent and halogen lamps, low-voltage halogen lamps with electronic transformer				
	Memory Touch Dimmer 6560 U-101	20–500 W/VA, 230 V incandescent and halogen lamps, low-voltage halogen lamps with conventional transformer				
Blind	Blind Basic Insert 6418 U	690 VA, 3 A at cos φ 0,5		X (timer with 3-minute contact for shutter, motors or blinds)		
	Blind Control II Insert 6411 U-101/ 6411 U/S-101	690 VA, 3 A at cos φ 0,5	X (timer with 3-minute contact for shutter, motors or blinds)			

				Control element				
	Busch-Watch-dog sensor All Weather 44 with combi-lense 6800-3x-102C	Busch-Watchdog comfort sensor (multilens) 6800-xxx-104(M)	Busch-Watchdog standard sensor 6810-21x	Busch-Remote control IR control element 6067-xxx-xxx	Busch-Remote control IR control element 6066-xxx-xxx	Busch-Blind control II control element 6430-xxx-xxx	Control Element for Memory 2gang Dimmer 6545-xxx	Busch-Touch dimmer control element 6543-xxx-10x
	X (only 6401 U-102 for outdoor use, frost-proof up to –25°C)	X	X	X*) (latching relay)				X (latching relay)
		X (Output 2 with switch-on/ switch-off delay in relation to Output 1)	X (Output 2 with switch-on/ switch-off delay in relation to Output 1)	X*) (latching relay, 2 normally open contacts, separate slave contact for light and fan control)	X*) (electronic serial switch, remote-controllable, 2 normally open contacts)	X (electronic serial switch, 2 normally open contacts)		X (latching relay, 2 normally open contacts, separate slave contact for light and fan control)
		X	X					
		X	X					
		X	X					
		X (Soft OFF mode: dim down/ switch off within the final minute/ switch-off warning)	X		X			X
					X			X
	X	X	X		X			X
							X	
								X
						X		
					X	X		

X .....Combination possible
*Optional remote-controllable by IR with 6010-25 or Beo6 remote control of Bang & Olufsen.

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-MasterLight® [1])
For wall mounting
Outdoor LED light with display of house number.
With integrated twilight sensor; brightness switching threshold is adjustable.
Illumination selectable in two brightness stages (approx. 15% / 100%).
With extension unit input (switch) for switchover of the brightness stages.
With alarm function which can be activated (lamp flashes white / red).
With extension unit input (button) for activating the alarm function / colour and light temperature adjustment.
Lamp: 5 x white LED, 4 x RGB LED.
Colour temperature (at 100% brightness): 4200 K (neutral white)
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 2
Polling voltage: 230 V~,
Rated power: 11 W
Brightness limit value: 3 Lux - 150 Lux
Mounting height: 1.8 m
Protection class (Device): IP 54
Temperature range (Device): -20 °C to 55 °C
Dimensions: (L x W x D): 299 mm x 125 mm x 33 mm

201	brown	**8401-201-500**	8400-0-0008	1	29
204	alpine white	**8401-204-500**	8400-0-0005	1	29
208	silver metallic	**8401-208-500**	8400-0-0006	1	29
35	anthracite	**8401-35-500**	8400-0-0007	1	29

1) Self-adhesive set of numerals, 1 - 999, a - f, enclosed.

Busch-Watchdog 280 MasterLINE [1])
incl. IR remote control
Electronic movement detector for detecting thermal motion.
Remote control possible via IR mobile remote control 6841.
Remote configurable via IR service remote control 6842-101.
With display for detection and operation mode.
With ground and rear-field detection.
With high-quality lens for optimum detection.
Detection sensitivity adjustable via IR service remote control.
Surveillance density: 110 sectors with 440 switching segments.
With integrated dismantling protection.
All functions controlled by microprocessor.
Continuous light (4 hours) and presence simulation can be activated via remote control.
With automatic range stabilization.
With automatic interference suppression.
With automatic dazzle-proofing.
With brightness-independent test mode for evaluating the detection zone.
Individual adjustment of detection range via enclosed protective foil which can be cut to size.
Additional possibility for switch-on via normally open push-button switch.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: ohmic, capacitive and inductive loads
Rated current: 16 AX, cos φ 0.6
Rated power: 3680 W/VA
Detection range: frontal: 16 m, lateral: 16 m
Detection angle: 280 °
Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation
Mounting height: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm

201	brown	**6867 AGM-201-500**	6800-0-2557	1	29
204	white	**6867 AGM-204-500**	6800-0-2554	1/10	29
208	silver metallic	**6867 AGM-208-500**	6800-0-2555	1	29
35	anthracite	**6867 AGM-35-500**	6800-0-2556	1	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 220 MasterLINE premium [1])
incl. IR remote control
Electronic movement detector for detecting thermal motion.
For potential-free operation.
With 2-zone detection and 2 separate switching outputs.
With connectable, movement-independent twilight switching operation.
Remote control possible via IR remote control 6841-101 (included in scope of delivery).
Remote configurable via IR service remote control 6842-101.
With display for detection and operation mode.
With ground and rear-field detection.
With high-quality lens for optimum detection.
Detection sensitivity adjustable via IR service remote control.
Surveillance density: 91 sectors with 364 switching segments.
With integrated dismantling protection.
All functions controlled by microprocessor.
Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control.
Reading in the current brightness value as switching threshold via remote control.
With automatic range stabilization.
With automatic interference suppression.
With automatic dazzle-proofing.
With brightness-independent test mode for evaluating the detection zone.
Individual adjustment of detection range via enclosed protective foil which can be cut to size.
Additional possibility for switch-on via normally open push-button switch.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: ohmic, capacitive and inductive loads
Rated current: 10 AX, cos φ 0.6
Rated power: 2300 W/VA
Control/Signal outputs: 1, Normally open contact, potential free
Rated power: 0.12 - 2300 W/VA
Detection range: frontal: 16 m, lateral: 16 m
Detection range 2: frontal: 1 m, lateral: 1 m
Detection angle: 220 °
Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation
Mounting height: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm

201	brown	**6848 AGM-201-500**	6800-0-2581	1	29
204	white	**6848 AGM-204-500**	6800-0-2578	1	29
208	silver metallic	**6848 AGM-208-500**	6800-0-2579	1	29
35	anthracite	**6848 AGM-35-500**	6800-0-2580	1	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 220 MasterLINE select [1])
Electronic movement detector for detecting thermal motion.
Remote operation via IR remote control 6841-101.
Remote configurable via IR service remote control 6842-101.
With display for detection and operation mode.
With high-quality lens for optimum detection.
Detection sensitivity adjustable via IR service remote control.
Surveillance density: 28 sectors with 112 switching segments.
With integrated dismantling protection.
All functions controlled by microprocessor.
Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control.
Reading in the current brightness value as switching threshold via remote control.
With automatic range stabilization.
With automatic interference suppression.
With automatic dazzle-proofing.
With brightness-independent test mode for evaluating the detection zone.
Individual adjustment of detection range via enclosed protective foil which can be cut to size.
Additional possibility for switch-on via normally open push-button switch.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: ohmic, capacitive and inductive loads
Rated current: 16 AX, cos φ 0.6
Rated power: 3680 W/VA
Detection range: frontal: 16 m, lateral: 16 m
Detection angle: 220 °
Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation
Mounting height: 1.1 m - 1.5 m alternative: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm

204 white	**6847 AGS-204-500**	6800-0-2537	1	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 220 MasterLINE [1])
Electronic movement detector for detecting thermal motion.
Remote operation via IR remote control 6841-101.
Remote configurable via IR service remote control 6842-101.
With display for detection and operation mode.
With ground and rear-field detection.
With high-quality lens for optimum detection.
Detection sensitivity adjustable via IR service remote control.
Surveillance density: 84 sectors with 336 switching segments.
With integrated dismantling protection.
All functions controlled by microprocessor.
Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control.
Reading in the current brightness value as switching threshold via remote control.
With automatic range stabilization.
With automatic interference suppression.
With automatic dazzle-proofing.
With brightness-independent test mode for evaluating the detection zone.
Individual adjustment of detection range via enclosed protective foil which can be cut to size.
Additional possibility for switch-on via normally open push-button switch.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: ohmic, capacitive and inductive loads
Rated current: 16 AX, cos φ 0.6
Rated power: 3680 W/VA
Detection range: frontal: 16 m, lateral: 16 m
Detection angle: 220 °
Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation
Mounting height: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm

201 brown	**6847/11 AGM-201**	6800-0-2523	1/10	29
204 alpine white	**6847/11 AGM-204**	6800-0-2520	1/10	29
208 silver metallic	**6847/11 AGM-208**	6800-0-2521	1/10	29
35 anthracite	**6847/11 AGM-35**	6800-0-2522	1/10	29
	incl. IR remote control			
201 brown	**6847 AGM-201-500**	6800-0-2535	1	29
204 white	**6847 AGM-204-500**	6800-0-2532	1/10	29
208 silver metallic	**6847 AGM-208-500**	6800-0-2533	1	29
35 anthracite	**6847 AGM-35-500**	6800-0-2534	1/10	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 220 MasterLINE [1]
incl. IR remote control
With anthracite-coloured lens.
Electronic movement detector for detecting thermal motion.
Remote control possible via IR remote control 6841-101 (included in scope of delivery).
Remote configurable via IR service remote control 6842-101.
With display for detection and operation mode.
With ground and rear-field detection.
With high-quality lens for optimum detection.
Detection sensitivity adjustable via IR service remote control.
Surveillance density: 84 sectors with 336 switching segments.
With integrated dismantling protection.
All functions controlled by microprocessor.
Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control.
Reading in the current brightness value as switching threshold via remote control.
With automatic range stabilization.
With automatic interference suppression.
With automatic dazzle-proofing.
With brightness-independent test mode for evaluating the detection zone.
Individual adjustment of detection range via enclosed protective foil which can be cut to size.
Additional possibility for switch-on via normally open push-button switch.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: ohmic, capacitive and inductive loads
Rated current: 16 AX, cos φ 0.6
Rated power: 3680 W/VA
Detection range: frontal: 16 m, lateral: 16 m
Detection angle: 220 °
Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation
Mounting height: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm

204 white	**6847/8 AGM-204-500**	6800-0-2600	1	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Ceiling/corner adapter
For Busch-Watchdog 220 MasterLINE.
For Busch-Watchdog 220 MasterLINE select.
For Busch-Watchdog 220 MasterLINE premium.
For Busch-Watchdog 280 MasterLINE.
For Busch-Watchdog 220 MasterLINE KNX.
For Busch-Watchdog 220 MasterLINE KNX premium.
For detection on two sides of the house, in combination with Busch-Watchdog 280.
For ceiling mounting of the Busch-Watchdog.
To increase the inclination of the Busch-Watchdog 220/280. It is mounted at the corner of the house, on the wall or under the ceiling.
For flush or surface wiring.
Mounting height: 2.5 m
Dimensions: (L x W x D): 102 mm x 125 mm x 55 mm

201 brown	**6868-201-500**	6800-0-2565	1	29
204 white	**6868-204-500**	6800-0-2562	1	29
208 silver metallic	**6868-208-500**	6800-0-2563	1	29
35 anthracite	**6868-35-500**	6800-0-2564	1	29

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 220 MasterLINE KNX [1] [2]
With 2 movement channels.
With 1 twilight channel with 3 switching thresholds.
No remote control possible via IR remote control KNX.
With integrated KNX bus coupler.
No additional power supply necessary.
Surveillance density: 92 sectors with 368 switching segments.
Twilight sensor: approx. 1 - 1000 lux
Switch-off delay: approx. 10 sec to 1092 min
Sensor angle: 220°
Range: approx. 16 m
Control element: 2 trim potentiometers
Connections:
KNX-line: Bus connection terminal
Detection range: frontal: 16 m, lateral: 16 m
Detection angle: 220 °
Brightness limit value: 1 Lux - 1000 Lux
Mounting height: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm

204 alpine white	**6179/01-204-500**	6132-0-0313	1/10	26
208 silver metallic	**6179/01-208-500**	6132-0-0314	1	26

1) For software and description please check the current e-catalogue.
2) Additional Power-Tool software necessary.

Busch-Watchdog 220 MasterLINE KNX premium [1] [2]
With 4 movement channels.
With 1 twilight / brightness channel with 3 switching thresholds.
With 1 temperature channel with three switching thresholds.
With 7-channel IR remote control.
Remote control possible via IR remote control KNX 6179 (included in scope of delivery).
With integrated KNX bus coupler.
No additional power supply necessary.
Surveillance density: 92 sectors with 368 switching segments.
Twilight sensor: approx. 1 - 1000 lux
Brightness sensor: approx. 1 - 80 klux.
Temperature sensor: approx. -25 to +55 °C
Switch-off delay: approx. 10 sec to 1092 min
Sensor angle: 220°
Range: approx. 16 m
Control element: 2 trim potentiometers
Connections:
KNX-line: Bus connection terminal
Detection range: frontal: 16 m, lateral: 16 m
Detection angle: 220 °
Brightness limit value: 1 Lux - 80000 Lux
Mounting height: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Temperature range (Sensor): -25 °C to 55 °C
Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm

204 alpine white	**6179/02-204-500**	6132-0-0317	1	26
208 silver metallic	**6179/02-208-500**	6132-0-0318	1	26

1) For software and description please check the current e-catalogue.
2) Additional Power-Tool software necessary.

IR remote control KNX [1]
For Busch-Watchdog 220 MasterLINE KNX premium.
The functions can be freely assigned.
With coded transmission signal.
Power supply: lithium button cell battery Type CR2025.
Battery life: typically 2 years.
Rated voltage: 3 V-
Protection class (Device): IP 40
Temperature range (Device): 0 °C to 45 °C
Dimensions: (L x W x D): 86 mm x 40 mm x 7 mm

grey / anthracite	**6179-500**	6132-0-0320	1	26

1) Battery included in delivery.

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 110 MasterLINE [1])
Electronic movement detector for detecting thermal motion.
Remote operation via IR remote control 6841-101.
Remote configurable via IR service remote control 6842-101.
With display for detection and operation mode.
With ground surveillance.
With high-quality lens for optimum detection.
Detection sensitivity adjustable via IR service remote control.
Adjustment of detection range via rotary control element.
Surveillance density: 25 sectors with 100 switching segments.
With integrated dismantling protection.
All functions controlled by microprocessor.
Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control.
Reading in the current brightness value as switching threshold via remote control.
With automatic range stabilization.
With automatic interference suppression.
With automatic dazzle-proofing.
With brightness-independent test mode for evaluating the detection zone.
Individual adjustment of detection range via enclosed protective foil which can be cut to size.
Additional possibility for switch-on via normally open push-button switch.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: ohmic, capacitive and inductive loads
Rated current: 10 AX, cos φ 0.6
Rated power: 2300 W/VA
Detection range: frontal: 12 m, lateral: 4 m
Brightness limit value: 3 Lux Up to daytime operation
Mounting height: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 100 mm x 125 mm x 33 mm

201	brown	**6855 AGM-201-500**	6800-0-2614	1	29
204	white	**6855 AGM-204-500**	6800-0-2611	1	29
208	silver metallic	**6855 AGM-208-500**	6800-0-2612	1	29
35	anthracite	**6855 AGM-35-500**	6800-0-2613	1	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 70 MasterLINE [1])
Electronic movement detector for detecting thermal motion.
With display for detection and operation mode.
With ground surveillance.
With high-quality lens for optimum detection.
Adjustment of detection range via rotary control element.
Surveillance density: 25 sectors with 100 switching segments.
With integrated dismantling protection.
With brightness-independent test mode for evaluating the detection zone.
Additional possibility for switch-on via normally open push-button switch.
Switch-off delay option: 1 / 3 or 5 min.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: ohmic, capacitive and inductive loads
Rated current: 6 AX, cos φ 0.6
Rated power: 1380 W/VA
Detection range: frontal: 12 m, lateral: 4 m
Brightness limit value: 3 Lux Up to daytime operation
Mounting height: 2.5 m
Protection class (Device): IP 55
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 100 mm x 125 mm x 33 mm

201	brown	**6854 AGM-201-500**	6800-0-2549	1	29
204	white	**6854 AGM-204-500**	6800-0-2546	1/10	29
208	silver metallic	**6854 AGM-208-500**	6800-0-2547	1	29
35	anthracite	**6854 AGM-35-500**	6800-0-2548	1	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty	PG
	Busch-Watchdog 220 ProfessionalLINE [1] without IR remote control Electronic movement detector for detecting thermal motion. Remote control possible via IR mobile remote control 6841. Remote configurable via IR service remote control 6842. With display for detection and operation mode. With ground and rear-field detection. With planar compensation: +/- 30°. With high-quality lens for optimum detection. Detection sensitivity selectable in 3 steps. Surveillance density: 84 sectors with 336 switching segments. All functions controlled by microprocessor. Continuous light (4 hours) and presence simulation can be activated via remote control. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With brightness-independent test mode for evaluating the detection zone. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz/60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 16 AX, cos φ 0.6 Rated power: 3680 W/VA Detection range: frontal: 16 m, lateral: 16 m Detection angle: 220 ° Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 97 mm x 97 mm x 159 mm			
201 brown	**6845/11AGM-201-500**	6800-0-2335	1	29
204 alpine white	**6845/11AGM-204-500**	6800-0-2334	1/10	29
35 anthracite	**6845/11 AGM-35-500**	6800-0-2336	1	29
208 silver metallic	**6845/11AGM-208-500**	6800-0-2337	1	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty	PG
	Busch-Watchdog 90 ProfessionalLINE [1] Electronic movement detector for detecting thermal motion. With display for detection and operation mode. With ground and rear-field detection. With planar compensation: +/- 30°. With high-quality lens for optimum detection. Surveillance density: 50 sectors with 200 switching segments. With brightness-independent test mode for evaluating the detection zone. Additional possibility for switch-on via normally open push-button switch. Switch-off delay option: 1 / 3 or 5 min. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz/60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 16 AX, cos φ 0.6 Rated power: 3680 W/VA Detection range: frontal: 12 m, lateral: 6 m Detection angle: 90 ° Brightness limit value: 3 Lux / 15 lux / daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 97 mm x 97 mm x 159 mm			
201 brown	**6853 AGM-201**	6800-0-2318	1	29
204 alpine white	**6853 AGM-204-500**	6800-0-2321	1/10	29

1) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty	PG
	Busch-Watchdog 220 WaveLINE [1] [2] Wireless movement detector for detecting thermal motion. With display for detection and status indication. With ground and rear-field detection. With high-quality lens for optimum detection. Surveillance density: 84 sectors with 336 switching segments. With integrated dismantling protection. All functions controlled by microprocessor. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With automatic battery monitoring. Battery service life: typically 5 years, therefore practically maintenance-free. With brightness-independent test mode for evaluating the detection zone. Individual adjustment of detection range via enclosed protective foil which can be cut to size. Combinable with switch actuator WaveLINE, 1gang, with extension unit 6701-101. Compatible with WaveLINE KNX gateway TP-RF 6770. For standalone and group operation. Switch-off delay: 3 min. (single mode), individually adjustable at actuator (group mode). Send frequency: 868 MHz. Free-field range: approx. 100 m. Rated voltage: 4.5 V- Detection range: frontal: 16 m, lateral: 16 m Detection angle: 220 ° Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm			
201 brown	**6747 AGM-201-500**	6700-0-0038	1	29
204 alpine white	**6747 AGM-204-500**	6700-0-0035	1	29
208 silver metallic	**6747 AGM-208-500**	6700-0-0036	1	29
35 anthracite	**6747 AGM-35-500**	6700-0-0037	1	29

1) Battery included in delivery.
2) Battery type: Lithium batteries 1250 mAh (L92 AAA 1.5 V).

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty	PG

WaveLINE switch actuator, 1gang, with extension unit [1]
For wireless switching of electrical loads.
Functions via radio control: ON/OFF, timer and light scene control.
Functions via the extension unit: ON/OFF, timer and sending a radio control telegram.
Operation also possible via conventional push-buttons (2020 US, 2012/6 UK).
Actuation of the extension unit (via conventional push-button) causes the output to switch and a radio control telegram to be sent.
Actuation of extension unit in ON/OFF function: Alternate sending of an ON/OFF telegram.
Actuation of extension unit in timer function: Sending of an ON telegram.
For Busch-Watchdog WaveLINE.
For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx.
For remote control WaveLINE 6780.
For WaveLINE window position sensor 6720-6x.
For WaveLINE 6721-xx universal signalling unit.
For Busch-EnergyControl 6762-xx.
Compatible with WaveLINE KNX gateway TP-RF 6770.
Switch-off delay: Adjustable to 5 seconds, 1-5-15 minutes.
Repeater function can be activated for extended range.
For universal attachment or installation.
3 wire connection (neutral conductor required).
For installation in (deep) flush-mounted boxes to German Standard DIN 49073, Part 1.
Controllable up to 32 transmission addresses.
Send/receive frequency: 868 MHz.
Free-field range: approx. 100 m.
Control element: Adjustable potentiometer
Display elements: Status indication of output via LED.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 1
Polling voltage: 230 V~, Sensing pulse, L-wire
Outputs: 1x Normally open contact, potential-bound
Suitable for: Resistive load
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Output voltage: 230 V~
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 A, cos φ 0.6
Output voltage: 230 V~
Rated power: 2300 VA
Protection class (Device): IP 20
Temperature range (Device): -20 °C to 45 °C
Dimensions: (L x W x D): 47 mm x 48 mm x 22 mm
Mounting depth: 25 mm

NEW

6701-101-500 6700-0-0040 1/10 19

1) For further information please check the current e-catalogue.

Product	Article-No.	Order-No.	Pack/Qty	PG

IR service remote control [1]
For Busch-Watchdog 110 MasterLINE.
For Busch-Watchdog 220 MasterLINE.
For Busch-Watchdog 220 MasterLINE select.
For Busch-Watchdog 220 MasterLINE premium.
For Busch-Watchdog 280 MasterLINE.
The following functions/settings can be activated depending on device type:
Activating/deactivating light ON for 4 hours.
Activating/deactivating light for 4 hours.
Activating/deactivating presence simulation.
Setting / resetting current brightness value as limit value to device settings.
Activating/deactivating test mode.
Calling up settings stored in the remote control.
Reset to factory default settings.
Activate/deactivate dynamic forced switch-off.
Activating/deactivating 2-zone operation.
Activating/deactivating synchronous mode.
Activating/deactivating twilight switch operation.
Setting of switch-off delay or short-time pulse.
Setting of the brightness limit value.
Adjusting the sensitivity.
With coded transmission signal.
Power supply: lithium button cell battery Type CR2025.
Battery life: typically 2 years.
Rated voltage: 3 V-
Protection class (Device): IP 40
Temperature range (Device): 0 °C to 45 °C
Dimensions: (L x W x D): 125 mm x 56 mm x 10 mm

6842-101-500 6800-0-2583 1 29

1) Battery included in delivery.

IR remote control [1]
For Busch-Watchdog 110 MasterLINE.
For Busch-Watchdog 220 MasterLINE.
For Busch-Watchdog 220 MasterLINE select.
For Busch-Watchdog 220 MasterLINE premium.
For Busch-Watchdog 280 MasterLINE.
The following functions can be activated:
Activating/deactivating light ON for 4 hours.
Activating/deactivating light for 4 hours.
Activating/deactivating presence simulation.
Setting / resetting current brightness value as limit value to device settings.
With coded transmission signal.
Power supply: lithium button cell battery Type CR2025.
Battery life: typically 2 years.
Rated voltage: 3 V-
Protection class (Device): IP 40
Temperature range (Device): 0 °C to 45 °C
Dimensions: (L x W x D): 86 mm x 40 mm x 7 mm

6841-101-500 6800-0-2585 1 29

1) Battery included in delivery.

Presence detector

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-MasterLight® [1])
For wall mounting
Outdoor LED light with display of house number.
With integrated twilight sensor; brightness switching threshold is adjustable.
Illumination selectable in two brightness stages (approx. 15% / 100%).
With extension unit input (switch) for switchover of the brightness stages.
With alarm function which can be activated (lamp flashes white / red).
With extension unit input (button) for activating the alarm function / colour and light temperature adjustment.
Lamp: 5 x white LED, 4 x RGB LED.
Colour temperature (at 100% brightness): 4200 K (neutral white)
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 2
Polling voltage: 230 V~,
Rated power: 11 W
Brightness limit value: 3 Lux - 150 Lux
Mounting height: 1.8 m
Protection class (Device): IP 54
Temperature range (Device): -20 °C to 55 °C
Dimensions: (L x W x D): 299 mm x 125 mm x 33 mm

201	brown	**8401-201-500**	8400-0-0008	1	29
204	alpine white	**8401-204-500**	8400-0-0005	1	29
208	silver metallic	**8401-208-500**	8400-0-0006	1	29
35	anthracite	**8401-35-500**	8400-0-0007	1	29

1) Self-adhesive set of numerals, 1 - 999, a - f, enclosed.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Presence detector mini KNX [1])
8 meter
Detection range (for mounting height 2.5 m, 3 m and 4 m): circular.
Seated persons Ø: 5 m, 6,5 m and 9 m.
Walking persons Ø: 6,5 m, 8 m and 10,5 m.
Visible height 16 mm.
With 2 channels.
Targeted for connection and disconnection of lights bands depending on the room brightness.
Regulation in response to the movement possible.
Using the device as presence and/or movement detectors.
Detectors application with 2 power off stages.
Detectors application with integrated monitoring function.
Constant light switch with up to two independent channels.
Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.
With integrated KNX bus coupler.
Connections:
KNX-line: Bus connection terminal
Brightness limit value: 1 Lux - 1000 Lux
Mounting height: 2 m - 4 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 80 mm x 80 mm x 45 mm
Mounting depth: 29 mm

NEW availibility December 2014

24	alpine white	**6131/20-24-500**	6132-0-0342	1	26
183	aluminium silver	**6131/20-183-500**	6132-0-0343	1	26

1) For software and description please check the current e-catalogue.

Busch-Presence detector mini premium KNX [1]) [2])
8 meter
Detection range (for mounting height 2.5 m, 3 m and 4 m): circular.
Seated persons Ø: 5 m, 6,5 m and 9 m.
Walking persons Ø: 6,5 m, 8 m and 10,5 m.
Visible height 16 mm.
With 4 channels.
For dimming/brightness of the rules to a defined value in a designated collection area.
HVAC function for controlling heating and/or cooling systems and ventilation systems in the designated collection area.
Detectors application with 2 power off stages.
Detectors application with integrated monitoring function.
Constant light controller with up to two independent channels.
Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room.
Integrated object room temperature controller.
10 freely programmable IR channels (white).
Incl. 5 logic channels (logic gates, gates, delay and staircase lighting).
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
With integrated KNX bus coupler.
Connections:
KNX-line: Bus connection terminal
Brightness limit value: 1 Lux - 1000 Lux
Mounting height: 2 m - 4 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 80 mm x 80 mm x 45 mm
Mounting depth: 29 mm

NEW availibility December 2014

24	alpine white	**6131/21-24-500**	6132-0-0344	1	26
183	aluminium silver	**6131/21-183-500**	6132-0-0345	1	26

1) For software and description please check the current e-catalogue.
2) HVAC = Heating/ ventilation/air-conditioning

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Presence detector KNX [1]
12 meter
Detection range (for mounting height 2.5 m, 3 m and 4 m): circular.
Seated persons Ø: 8 m, 10 m and 14 m.
Walking persons Ø: 10 m, 12 m and 16 m.
Visible height 23 mm.
With 2 channels.
Targeted for connection and disconnection of lights bands depending on the room brightness.
Regulation in response to the movement possible.
Using the device as presence and/or movement detectors.
Detectors application with 2 power off stages.
Detectors application with integrated monitoring function.
Constant light switch with up to two independent channels.
Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.
With integrated KNX bus coupler.
Connections:
KNX-line: Bus connection terminal
Brightness limit value: 1 Lux - 1000 Lux
Mounting height: 2 m - 4 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm
Mounting depth: 22 mm

NEW availibility December 2014

24	alpine white	**6131/30-24-500**	6132-0-0346	1	26
183	aluminium silver	**6131/30-183-500**	6132-0-0347	1	26

1) For software and description please check the current e-catalogue.

Busch-Presence detector premium KNX [1] [2]
12 meter
Detection range (for mounting height 2.5 m, 3 m and 4 m): circular.
Seated persons Ø: 8 m, 10 m and 14 m.
Walking persons Ø: 10 m, 12 m and 16 m.
Visible height 23 mm.
With 4 channels.
For dimming/brightness of the rules to a defined value in a designated collection area.
HVAC function for controlling heating and/or cooling systems and ventilation systems in the designated collection area.
Detectors application with 2 power off stages.
Detectors application with integrated monitoring function.
Constant light controller with up to two independent channels.
Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room.
Integrated object room temperature controller.
10 freely programmable IR channels (white).
Incl. 5 logic channels (logic gates, gates, delay and staircase lighting).
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
With integrated KNX bus coupler.
Connections:
KNX-line: Bus connection terminal
Brightness limit value: 1 Lux - 1000 Lux
Mounting height: 2 m - 4 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm
Mounting depth: 22 mm

NEW availibility December 2014

24	alpine white	**6131/31-24-500**	6132-0-0348	1	26
183	aluminium silver	**6131/31-183-500**	6132-0-0349	1	26

1) For software and description please check the current e-catalogue.
2) HVAC = Heating/ ventilation/air-conditioning

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog Sky KNX [1]
24 meter
Detection range (for mounting height 6 m and 12 m): circular.
Walking persons Ø: 18 m, 24 m.
Visible height 23 mm.
With 2 channels.
Targeted for connection and disconnection of lights bands depending on the room brightness.
Regulation in response to the movement possible.
Use of the device as a movement detector.
Detectors application with 2 power off stages.
Detectors application with integrated monitoring function.
Constant light switch with up to two independent channels.
Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.
With integrated KNX bus coupler.
The programming button can be activated with the IR transmitter 6010-25 (-500).
Connections:
KNX-line: Bus connection terminal
Brightness limit value: 1 Lux - 1000 Lux
Mounting height: 4 m - 12 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm
Mounting depth: 22 mm

NEW availibility December 2014

24	alpine white	**6131/40-24-500**	6132-0-0350	1	26

1) For software and description please check the current e-catalogue.

Surface-mounting box
For Busch-Presence detector mini KNX.
For installing a Busch-Presence detector mini KNX 6131/20-xxx(-500) or a Busch-Presence detector mini premium KNX 6131/21-xxx(-500).
Protection class (Device): IP 20
Dimensions: (L x W x D): 80 mm x 80 mm x 35 mm

NEW availibility December 2014

24	alpine white	**6131/29-24-500**	6132-0-0351	1	26
183	aluminium silver	**6131/29-183-500**	6132-0-0352	1	26

Surface-mounting box
For Busch-Presence detector KNX and Busch-Watchdog Sky KNX.
For installing a Busch-Presence detector KNX 6131/30-xxx(-500) or a Busch-Presence detector premium KNX 6131/31-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500).
Protection class (Device): IP 20
Dimensions: (L x W x D): 91 mm x 91 mm x 33 mm

NEW availibility December 2014

24	alpine white	**6131/39-24-500**	6132-0-0353	1	26
183	aluminium silver	**6131/39-183-500**	6132-0-0354	1	26

Presence detector

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog Presence tech BasicLINE mini [1] [2]
For switching lighting systems that depend on brightness and movement.
Low mounting height due to separate sensor/actuator concept.
Detection range (installation height 3m, up to 6m in diameter).
Continuously variable detection sensitivity.
With brightness-independent test mode for evaluating the detection zone.
With detection display in test mode.
Ceiling installation using integrated spring bracket.
Surveillance density: 19 sectors with 76 switching segments.
Switch-off delay: approx. 1 sec - 15 min or short-time pulse adjustable.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V incandescent lamps
Rated power: 2000 W
Suitable for: Energy-saving bulbs
Rated power: 7 - 400 W
Suitable for: Fluorescent lamps
Rated current: 4 AX, cos φ 0.5
Rated power: 1000 W/VA
Detection angle: 360 °
Brightness limit value: 10 Lux - 1000 Lux , Daytime operation
Mounting height: 2 m - 5 m
Protection class (Device): IP 20
Protection class (Sensor): IP 40
Temperature range (Device): 0 °C to 45 °C
Mounting depth: 77 mm
IEC 60669-2-1

alpine white	**6811 EB-500**	6800-0-2517	1/30	29

1) When mounting the actuator through the drilled hole of the sensor an installation depth of ≥ 205 mm is to be taken into account.
2) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog Presence tech BasicLINE [1] [2]
For switching lighting systems that depend on brightness and movement.
For semiautomatic and fully automatic operation.
Additional activation/deactivation possibility through push-button input.
Detection range (for installation height of 2.5 m), circular, up to 7 m in diameter.
Adaptation of the detection range possible using the included masking elements.
With brightness-independent test mode for evaluating the detection zone.
With detection display in test mode.
Mounting possibility in combination with built-in installation boxes and device sockets.
Ceiling installation using integrated spring bracket.
Adjustment elements accessible on the front side.
Low mounting height (31 mm)
Surveillance density: 32 sectors with 128 switching segments.
Switch-off delay: approx. 5 sec - 30 min or short-time pulse adjustable.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V incandescent lamps
Rated power: 2000 W
Suitable for: Energy-saving bulbs
Rated power: 7 - 400 W
Suitable for: Fluorescent lamps
Rated current: 4 AX, cos φ 0.5
Rated power: 1000 W/VA
Detection angle: 360 °
Brightness limit value: 10 Lux - 2000 Lux
Mounting height: 2 m - 4 m
Protection class (Device): IP 40
Temperature range (Device): 0 °C to 45 °C
Dimensions: (L x W x D): 111 mm x 111 mm x 59 mm
Mounting depth: 41 mm
IEC 60669-2-1

alpine white	**6814 U-500**	6800-0-2518	1/24	29

1) The detection range with a central approach is reduced.
2) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog Presence tech BasicLINE Corridor [1] [2] [3]
For switching lighting systems that depend on brightness and movement.
Additional activation/deactivation possibility through push-button input.
Detection range (for installation height of 2.5 m, circular, up to 24 m in diameter).
Adaptation of the detection range possible using the included masking elements.
With brightness-independent test mode for evaluating the detection zone.
With detection display in test mode.
With automatic motion detection.
With automatic sensitivity adaptation.
Mounting possibility in combination with built-in installation boxes and device sockets.
Ceiling installation using included dust protection socket.
Adjustment elements accessible on the front side.
Surveillance density: 215 sectors with 860 switching segments.
Switch-off delay: approx. 10 sec - 30 min or short-time pulse adjustable.
Remote control possible via IR service remote control 6843.
Use outdoors possible due to combination with surface-mounted housing 6888.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V incandescent lamps
Rated power: 2000 W
Suitable for: Energy-saving bulbs
Rated power: 7 - 400 W
Suitable for: Fluorescent lamps
Rated current: 4 AX, cos φ 0.5
Rated power: 1000 W/VA
Detection angle: 360 °
Brightness limit value: 10 Lux - 2000 Lux
Mounting height: 2 m - 3 m
Protection class (Device): IP 40
Temperature range (Device): -20 °C to 45 °C
Dimensions: (L x W x D): 110 mm x 110 mm x 70 mm
Mounting depth: 48 mm
IEC 60669-2-1

alpine white	**6818 U-500**	6800-0-2519	1/18	29

1) The maximum detection range depends on the mounting site and ambient conditions.
2) The detection range with a central approach is reduced.
3) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Surface-mounting box
For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U.
For surface mounting and increase of the protection type.
Protection class (Device): IP 54
Temperature range (Device): -20 °C to 45 °C
Dimensions: (L x W x D): 106 mm x 106 mm x 26 mm

alpine white	**6888**	6899-0-2305	1/90	29

Product	Article-No.	Order-No.	Pack/Qty	PG

IR service remote control [1]
For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U.
The following functions/settings can be implemented.
Continuous light on/off (8 h).
Setting of the brightness limit value.
Setting of the current ambient light value as the brightness limit value.
Setting of switch-off delay or short-time pulse.
Saving and duplication of the saved values.
Activate test mode.
Reset to factory default settings.
Activation/deactivation of the button lock.
Power supply: lithium button cell battery Type CR2032.
Range: frontal 3 m
Rated voltage: 3 V-
Dimensions: (L x W x D): 106 mm x 50 mm x 8 mm

	6843	6800-0-2511	1/120	29

1) Battery included in delivery.

Protective basket
For ceiling presence detectors.
for Busch-Watchdog Presence tech (6813-101-500),
For Busch-Watchdog Presence tech Dualline 6813/11-xxx.
For Busch-Watchdog Presence tech BasicLINE 6814 U.
For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U.
For all Busch-Smoke alarm detectors ProfessionalLINE.
For all Busch-Heat alarm detectors ProfessionalLINE.
Busch-Smoke alarm detector 6831-84 and 6832-84.
Also applicable in connection with surface-mounted housings 6885-xxx and 6888.
For Busch-Watchdog Presence KNX 6131/10-xxx and 6131/11-xxx.
Dimensions: (L x W x D): 180 mm x 180 mm x 98 mm

alpine white	**6898**	6899-0-2304	1	29

Busch-Watchdog Presence tech [1]
For switching and dimming lighting systems that depend on brightness and movement.
For constant light regulation in combination with Dimmer insert 6524 U, 6593 U or 6550 U-101.
For heating/air-conditioning/ventilation adjustment in combination with serial insert 6402 U.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For extension insert 6805 U.
Remote control possible via IR mobile remote control 6010-25.
Detection range (for installation height 2.5 m): circular, 8 m diameter.
Intelligent turn-on delay.
Surveillance density: 72 sectors with 640 switching segments.
Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable.
Detection angle: 360 °
Brightness limit value: 5 Lux - 1000 Lux
Mounting height: 2 m - 8 m
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C
60669-2-1, British Standard EN 60669-2-1

24	studio white matt	**6813-101-500**	6800-0-2178	1/10	29
183	aluminium silver	**6813-183-101-500**	6800-0-2324	1	29

1) Please order the respective flush mounted insert separately.

Presence detector

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog Presence tech DualLINE [1])
For switching and dimming lighting systems that depend on brightness and movement.
For constant light regulation in combination with Dimmer insert 6524 U, 6593 U or 6550 U-101.
For the control of 2 independent light strips in combination with 2gang 1way unit 6402 U.
For semiautomatic and fully automatic operation.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For extension insert 6805 U.
Remote control possible via IR mobile remote control 6010-25.
Detection range (for installation height 2.5 m): circular, 8 m diameter.
Intelligent turn-on delay.
Surveillance density: 72 sectors with 640 switching segments.
Switch-off delay: approx. 1 sec - 20 min or short-time pulse adjustable.
Detection angle: 360 °
Brightness limit value: 5 Lux - 1000 Lux
Mounting height: 2 m - 8 m
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C
60669-2-1, British Standard EN 60669-2-1

24	studio white matt	**6813/11-24-500**	6800-0-2350	1	29
183	aluminium silver	**6813/11-183-500**	6800-0-2352	1	29

1) Please order the respective flush mounted insert separately.

Surface-mounting box
For Busch-Watchdog Presence tech.
For the installation of a flush-mounted insert in combination with the Busch-Watchdog Presence tech 6813(/11)-xx-(101) or the Busch-Watchdog Presence tech KNX 6131/10-xxx or Busch-Watchdog Presence tech DualLINE KNX 6131/11-xxx.
Protection class (Device): IP 20
Dimensions: (L x W x D): 110 mm x 110 mm x 39 mm

24	studio white matt	**6885-500**	6899-0-0282	1/10	29
183	aluminium silver	**6885-183-500**	6899-0-0298	1	29

Busch-Wächter® Präsenz tech KNX [1]) [2]) *])
With integrated KNX bus coupler.
Targeted for connection and disconnection of lights bands depending on the room brightness.
Regulation in response to the movement possible.
Using the device as presence and/or movement detectors.
Movement detector with up to two independent channels.
Constant light switch with up to two independent channels.
Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.
Detection range (for installation height 2.5 m): circular, 8 m diameter.
Surveillance density: 72 sectors with 640 switching segments.
Connections:
KNX-line: Bus connection terminal
Brightness limit value: 1 Lux - 1000 Lux
Mounting height: 2 m - 8 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 110 mm x 51 mm

24	alpine white	**6131/10-24-500**	6132-0-0295	1	26
183	aluminium silver	**6131/10-183-500**	6132-0-0297	1	26

1) For software and description please check the current e-catalogue.
2) Additional Power-Tool software necessary.
*) Phase-out type

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Wächter® Präsenz tech DualLINE KNX [1]) [2]) [3]) *])
With integrated KNX bus coupler.
For dimming/brightness of the rules to a defined value in a designated collection area.
HVAC function with up to two independent channels for controlling heating and/or cooling systems and ventilation systems in the designated collection area.
Constant light controller with up to two independent channels.
Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room.
Constant light switch with up to two independent channels.
Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area.
10 freely programmable IR channels (blue and/or white)
Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.)
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
Detection range (for installation height 2.5 m): circular, 8 m diameter.
Surveillance density: 72 sectors with 640 switching segments.
Brightness limit value: 1 Lux - 1000 Lux
Mounting height: 2 m - 8 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 110 mm x 51 mm

24	alpine white	**6131/11-24-500**	6132-0-0299	1/10	26
183	aluminium silver	**6131/11-183-500**	6132-0-0301	1	26

1) For software and description please check the current e-catalogue.
2) HVAC = Heating/ ventilation/air-conditioning
3) Additional Power-Tool software necessary.
*) Phase-out type

IR remote control
Battery-supplied infrared remote control.
For IR receiver (60xx).
For KNX presence detectors and KNX sensors with infrared interface.
For switching/dimming up to 10 loads in 2 groups (1-5 / 6-10).
Programming and selection of 2 MEMO memories possible per group.
Supply from 4 alkaline manganese batteries, IEC LR03 (microcell). Not included in delivery.
Range: 15 m
Rated voltage: 6 V-

6010-25	6020-0-0010	1	19

Busch-Watchdog presence inserts

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Universal relay switch insert
3 wire connection (neutral conductor required).
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog 180 FP sensor for All Weather 44 6800-3x-102C.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
For comfort timer control element 6455-101-500.
For Busch-Remote control IR control cover 6067-xxx-10x.
For control cover with control lamp 6543-xxx-10x.
Combinable with Busch-Watchdog extension insert 6805 U.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers.
Rated current: 10 AX
Rated power: 2300 W/VA
Temperature range (Device): -25 °C to 55 °C
British Standard EN 60669-2-1

6401 U-102-500	6401-0-0049	1/10	19

Busch-Watchdog relay mechanism
3 wire connection (neutral conductor required).
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
Rated voltage: 230 V, +10 % / -10 %
Rated frequency: 50 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers.
Rated power: 700 W/VA
Temperature range (Device): 0 °C to 55 °C
British Standard EN 60669-2-1

6812 U-101-500	6800-0-2160	1/10	19

Busch-Watchdog MOS-Fet Insert [1] [2] [3] [4] [5] [6]
2-wire connection (neutral conductor not required)
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
Combinable with Busch-Watchdog extension insert 6805 U.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer.
Rated power: 60 - 420 W/VA
Temperature range (Device): 0 °C to 35 °C
British Standard EN 60669-2-1

6804 U-101-500	6800-0-2219	1/10	19

1) In case of electronic transformers, 5 % transformer losses.
2) In the case of conventional transformers, take ~20% transformer loss into account.
3) Cannot be connected to compact fluorescent lamps, ECG or CCG.
4) Not suitable for activating the staircase time delay.
5) Cannot be used to control relais.
6) Requires an NIS international socket, E-No. 372507676.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Universal 2gang 1way insert
3 wire connection (neutral conductor required).
For the serial switch operating mode: 2 separate outputs, 2 separate extension inputs.
For operation mode time switch: Output 1 (e.g. illumination), Output 2: switch-on/off delayed, dependent on output 1 (e.g. fan control).
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
For Busch-Remote control IR control cover 6066-xxx-10x and 6067-xxx-10x.
For control cover 6430-xxx-10x and 6543-xxx-10x.
Combinable with Busch-Watchdog extension insert 6805 U.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Outputs: 2x Normally open contact, potential-bound
Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers.
Rated current: 10 AX
Rated power: 2300 W/VA
Temperature range (Device): 0 °C to 35 °C
British Standard EN 60669-2-1

6402 U-500	6401-0-0051	1/10	19

Busch-Watchdog extension insert [1]
3 wire connection (neutral conductor required).
For extending Busch-Watchdog 180 flush-mounted and Busch-Watchdog Presence tech installations.
For combination with relay insert 6401 U-102 and 6402 U.
For combination with MOS-Fet insert 6804 U-101.
For combination with Dimmer insert 6593 U and 6550 U-101.
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Control/Signal outputs: 1, electronic output, potential-bound
Temperature range (Device): 0 °C to 35 °C

6805 U-500	6800-0-2161	1/10	19

1) Not combinable with relay switch insert 6812 U-101.

Busch-Watchdog presence inserts

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Universal master dimmer insert [1] [2] [3] [4]
Touch Dimmer
With light-level memory and intelligence for universal operation.
Selectable Soft-ON/OFF function and memory function.
Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Short-circuit-proof, overload-protected.
With touch control.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control cover with control lamp 6543-xxx-10x.
For Busch-Remote control IR control cover 6066-xxx-10x.
For comfort timer control element 6455-101-500.
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
Combinable with Busch-Watchdog extension insert 6805 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

R,L,C

6593 U-500	6590-0-0171	1/10	19

1) In the case of conventional transformers, take ~20% transformer loss into account.
2) In case of electronic transformers, 5 % transformer losses.
3) In conjunction with 6800-xxx-104 (M) a Soft Off can be adjusted.
4) Only in conjunction with standard flush-mounting boxes according to DIN 49073, Part 1, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-Memory touch-type controller [1] [2] [3]
3 wire connection (neutral conductor required).
For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC.
For control cover with control lamp 6543-xxx-10x.
For Busch-Remote control IR control cover 6066-xxx-10x and 6067-xxx-10x.
For comfort timer control element 6455-101-500.
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
Combinable with Busch-Watchdog extension insert 6805 U.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
For LED control via control gears
Without control cover.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

6550 U-101-500	6550-0-0042	1	19

1) Non-illuminable.
2) Only in conjunction with standard flush-mounting boxes according to DIN 49073, Part 1, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
3) with integrated making-current limiter

Busch-Watchdog flush-mounted / sensors

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 180 flush-mounted standard sensor [1]
With select-lens.
For automatic switching of devices dependent on motion and brightness.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
Surveillance density: 18 sectors with 72 switching segments.
Switch-off delay: 80 sec.
Detection range: frontal: 12 m, lateral: 8 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

Busch-Duro 2000® SI

212 white	**6810-212-101-500**	6800-0-2162	1	19

Reflex SI

214 alpine white	**6810-214-101-500**	6800-0-2163	1	19

1) Please order the respective flush mounted insert separately.

Busch-Watchdog 180 flush-mounted comfort sensor II [1]
With select-lens.
For automatic switching of devices dependent on motion and brightness.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
With integrated selector switch for ON-AUTOMATIC-OFF (lockable).
Soft phase-out: In combination with the 6593 U (mode of operation: Soft OFF) the illumination is dimmed down within 60 sec and switched off.
Surveillance density: 18 sectors with 72 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Detection range: frontal: 12 m, lateral: 8 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

Busch-Duro 2000® SI

212 white	**6800-212-104-500**	6800-0-2164	1	19

Reflex SI

214 alpine white	**6800-214-104-500**	6800-0-2165	1	19

1) Please order the respective flush mounted insert separately.

Busch-Watchdog flush-mounted / sensors

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 180 flush-mounted comfort sensor II [1]
With select-lens.
For automatic switching of devices dependent on motion and brightness.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
With integrated selector switch for ON-AUTOMATIC-OFF (lockable).
Soft phase-out: In combination with the 6593 U (mode of operation: Soft OFF) the illumination is dimmed down within 60 sec and switched off.
Surveillance density: 18 sectors with 72 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Detection range: frontal: 12 m, lateral: 8 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

alpha

20	platinum [2]	**6800-20-104**	6800-0-2068	1	19
21	bronze [2]	**6800-21-104**	6800-0-2069	1	19
22G	ivory	**6800-22G-104**	6800-0-2070	1	19
24	studio white matt	**6800-24-104-500**	6800-0-2168	1	19
24G	studio white	**6800-24G-104-500**	6800-0-2170	1	19
260	palladium [2]	**6800-260-104**	6800-0-2118	1/10	19
266	titanium [2]	**6800-266-104**	6800-0-2120	1/10	19

1) Please order the respective flush mounted insert separately.
2) Surface painted.

Busch-Watchdog 180 flush-mounted comfort sensor II [1]
With select-lens.
For automatic switching of devices dependent on motion and brightness.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
With integrated selector switch for ON-AUTOMATIC-OFF (lockable).
Soft phase-out: In combination with the 6593 U (mode of operation: Soft OFF) the illumination is dimmed down within 60 sec and switched off.
Surveillance density: 18 sectors with 72 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Detection range: frontal: 12 m, lateral: 8 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

impuls

72	ivory	**6800-72-104**	6800-0-2338	1/10	19
74	alpine white	**6800-74-104-500**	6800-0-2172	1	19
79	champagne metallic [2]	**6800-79-104**	6800-0-2081	1	19
774	studio white, matt [2]	**6800-774-104**	6800-0-2504	1	19
775	black matt [2]	**6800-775-104**	6800-0-2502	1	19
777	blackberry [2]	**6800-777-104**	6800-0-2357	1	19
783	aluminium silver [2]	**6800-783-104**	6800-0-2340	1	19

1) Please order the respective flush mounted insert separately.
2) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 180 flush-mounted comfort sensor II [1]
With select-lens.
For automatic switching of devices dependent on motion and brightness.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
With integrated selector switch for ON-AUTOMATIC-OFF (lockable).
Soft phase-out: In combination with the 6593 U (mode of operation: Soft OFF) the illumination is dimmed down within 60 sec and switched off.
Surveillance density: 18 sectors with 72 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Detection range: frontal: 12 m, lateral: 8 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

future® linear

81	anthracite	**6800-81-104**	6800-0-2268	1	19
82	ivory white	**6800-82-104**	6800-0-2099	1/10	19
83	aluminium silver [2]	**6800-83-104**	6800-0-2325	1	19
84	studio white	**6800-84-104**	6800-0-2101	1/10	19
884	studio white, matt [2]	**6800-884-104**	6800-0-2497	1	19
885	black matt [2]	**6800-885-104**	6800-0-2506	1	19

solo®

82	ivory white	**6800-82-104**	6800-0-2099	1/10	19
84	studio white	**6800-84-104**	6800-0-2101	1/10	19
803	grey metallic [2]	**6800-803-104**	6800-0-2484	1	19
815	yellow	**6800-815-104**	6800-0-2482	1	19

Busch-axcent®

84	studio white	**6800-84-104**	6800-0-2101	1/10	19
896	chalet-white	**6800-896-104-500**	6800-0-2618	10/10	19

carat®

81	anthracite	**6800-81-104**	6800-0-2268	1	19
82	ivory white	**6800-82-104**	6800-0-2099	1/10	19
84	studio white	**6800-84-104**	6800-0-2101	1/10	19

pure stainless steel [2]

866	stainless steel	**6800-866-104**	6800-0-2343	1	19

1) Please order the respective flush mounted insert separately.
2) Surface painted.

Busch-Watchdog flush-mounted / sensors

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 180 flush-mounted comfort sensor II [1] [2] With multi-lens.
For automatic switching of devices dependent on motion and brightness.
For down-to-ground detection.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
With integrated selector switch for ON-AUTOMATIC-OFF (lockable).
Soft phase-out: In combination with the 6593 U (mode of operation: Soft OFF) the illumination is dimmed down within 60 sec and switched off.
Surveillance density: 28 sectors with 112 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Detection range: frontal: 15 m, lateral: 5 m, Mounting height: 2.5 m
Detection range 2: frontal: 10 m, lateral: 2.5 m, Mounting height: 1.2 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m alternative: 2.5 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

Busch-Duro 2000® SI

212	white	**6800-212-104M-500**	6800-0-2166	1	19

Reflex SI

214	alpine white	**6800-214-104M-500**	6800-0-2167	1	19

1) installation: slide switch top.
2) Please order the respective flush mounted insert separately.

Busch-Watchdog 180 flush-mounted comfort sensor II [1] [2] With multi-lens.
For automatic switching of devices dependent on motion and brightness.
For down-to-ground detection.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
With integrated selector switch for ON-AUTOMATIC-OFF (lockable).
Soft phase-out: In combination with the 6593 U (mode of operation: Soft OFF) the illumination is dimmed down within 60 sec and switched off.
Surveillance density: 28 sectors with 112 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Detection range: frontal: 15 m, lateral: 5 m, Mounting height: 2.5 m
Detection range 2: frontal: 10 m, lateral: 2.5 m, Mounting height: 1.2 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m alternative: 2.5 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

alpha

20	platinum [3]	**6800-20-104M**	6800-0-2084	1	19
21	bronze [3]	**6800-21-104M**	6800-0-2085	1	19
22G	ivory	**6800-22G-104M**	6800-0-2086	1	19
24	studio white matt	**6800-24-104M-500**	6800-0-2169	1	19
24G	studio white	**6800-24G-104M-500**	6800-0-2171	1	19
260	palladium [3]	**6800-260-104M**	6800-0-2119	1/10	19
266	titanium [3]	**6800-266-104M**	6800-0-2121	1/10	19

1) installation: slide switch top.
2) Please order the respective flush mounted insert separately.
3) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 180 flush-mounted comfort sensor II [1] [2] With multi-lens.
For automatic switching of devices dependent on motion and brightness.
For down-to-ground detection.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
With integrated selector switch for ON-AUTOMATIC-OFF (lockable).
Soft phase-out: In combination with the 6593 U (mode of operation: Soft OFF) the illumination is dimmed down within 60 sec and switched off.
Surveillance density: 28 sectors with 112 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Detection range: frontal: 15 m, lateral: 5 m, Mounting height: 2.5 m
Detection range 2: frontal: 10 m, lateral: 2.5 m, Mounting height: 1.2 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m alternative: 2.5 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

impuls

72	ivory	**6800-72-104M**	6800-0-2339	1	19
74	alpine white	**6800-74-104M-500**	6800-0-2173	1	19
79	champagne metallic [3]	**6800-79-104M**	6800-0-2097	1	19
774	studio white, matt [3]	**6800-774-104M**	6800-0-2505	1	19
775	black matt [3]	**6800-775-104M**	6800-0-2503	1	19
777	blackberry [3]	**6800-777-104M**	6800-0-2358	1	19
783	aluminium silver [3]	**6800-783-104M**	6800-0-2341	1	19

1) installation: slide switch bottom.
2) Please order the respective flush mounted insert separately.
3) Surface painted.

Busch-Watchdog flush-mounted / sensors

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 180 flush-mounted comfort sensor II [1] [2]
With multi-lens.
For automatic switching of devices dependent on motion and brightness.
For down-to-ground detection.
For relay inserts 6401 U-102, 6402 U and 6812 U-101.
For MOS-Fet insert 6804 U-101.
For Dimmer insert 6593 U.
For extension insert 6805 U.
With integrated selector switch for ON-AUTOMATIC-OFF (lockable).
Soft phase-out: In combination with the 6593 U (mode of operation: Soft OFF) the illumination is dimmed down within 60 sec and switched off.
Surveillance density: 28 sectors with 112 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
Detection range: frontal: 15 m, lateral: 5 m, Mounting height: 2.5 m
Detection range 2: frontal: 10 m, lateral: 2.5 m, Mounting height: 1.2 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m alternative: 2.5 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

future® linear

81	anthracite	**6800-81-104M**	6800-0-2269	1	19
82	ivory white	**6800-82-104M**	6800-0-2100	1	19
83	aluminium silver [3]	**6800-83-104M**	6800-0-2327	1	19
84	studio white	**6800-84-104M**	6800-0-2102	1/10	19
884	studio white, matt [3]	**6800-884-104M**	6800-0-2498	1	19
885	black matt [3]	**6800-885-104M**	6800-0-2500	1	19

solo®

82	ivory white	**6800-82-104M**	6800-0-2100	1	19
84	studio white	**6800-84-104M**	6800-0-2102	1/10	19
803	grey metallic [3]	**6800-803-104M**	6800-0-2485	1	19
815	yellow	**6800-815-104M**	6800-0-2483	1	19

Busch-axcent®

84	studio white	**6800-84-104M**	6800-0-2102	1/10	19
896	chalet-white	**6800-896-104M-500**	6800-0-2619	10/10	19

carat®

81	anthracite	**6800-81-104M**	6800-0-2269	1	19
82	ivory white	**6800-82-104M**	6800-0-2100	1	19
84	studio white	**6800-84-104M**	6800-0-2102	1/10	19

pure stainless steel [3]

866	stainless steel	**6800-866-104M**	6800-0-2344	1	19

1) installation: slide switch top.
2) Please order the respective flush mounted insert separately.
3) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Watchdog 180 flush-mounted comfort sensor II for All Weather 44 [1] [2]
With combi-lens
For automatic switching of devices dependent on motion and brightness.
For use outdoors.
For down-to-ground detection.
For Busch-Universal relay switch insert 6401 U-102.
IP 44 only in conjunction with cover frames All Weather 44.
Surveillance density: 40 sectors with 160 switching segments.
Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable.
With screw-type terminal.
Detection range: frontal: 15 m, lateral: 10 m, Mounting height: 2.5 m
Detection range 2: frontal: 9 m, lateral: 4 m, Mounting height: 1.2 m
Detection angle: 180 °
Brightness limit value: 5 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m alternative: 2.5 m
Protection class (Sensor): IP 44
Temperature range (Device): -25 °C to 55 °C
Position for installation: vertical

31	brown	**6800-31-102C**	6800-0-2353	1	19
32	white	**6800-32-102C**	6800-0-1898	1	19
33	aluminium silver	**6800-33-102C**	6800-0-2354	1	19
34	alpine white	**6800-34-102C**	6800-0-1674	1	19
35	anthracite	**6800-35-102C**	6800-0-1740	1	19

1) Delivered with sealing ring.
2) Please order the respective flush mounted insert separately.

RC suppressor
For protection against the damage or destruction of electronic devices due to overvoltages.
For wiring network-interconnected inductivities (e.g.. relay, protection, fluorescent lamps, transformers, etc.).
Eliminates functional disturbances on electronic devices, e.g. automatic circuit reclosure (clocking) of a movement detector.
Dimensions: diameter 25 mm, length 35 mm, length of the connecting cable approx. 100 mm.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz

6899	6899-0-0231	10	19

Busch-Comfort switch

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Comfort switch relay mechanism [1] [2] [3]
3 wire connection (neutral conductor required).
For Busch-Comfort switch sensors 6815-xxx.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 2300 W/VA
Suitable for: 230 V halogen lamps
Rated power: 1200 W
Suitable for: Fluorescent lamps
Rated current: 10 AX, cos φ 0.5
Rated power: 2300 VA
Temperature range (Device): 0 °C to 35 °C
British Standard EN 60669-2-1

	6816 U-500	6800-0-2621	1/10	19

1) In case of electronic transformers, 5 % transformer losses.
2) In the case of conventional transformers, take ~20% transformer loss into account.
3) Output can be connected in parallel.

Busch-Comfort switch 2-wire insert [1] [2] [3] [4] [5] [6]
2-wire connection (neutral conductor not required)
For Busch-Comfort switch sensors 6815-xxx.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer.
Rated power: 40 - 300 W/VA
Temperature range (Device): 0 °C to 35 °C
British Standard EN 60669-2-1

	6815 U	6800-0-2270	1/10	19

1) In case of electronic transformers, 5 % transformer losses.
2) In the case of conventional transformers, take ~20% transformer loss into account.
3) Cannot be connected to compact fluorescent lamps, ECG or CCG.
4) Not suitable for activating the staircase time delay.
5) Cannot be used to control relais.
6) Output cannot be connected in parallel.

Busch-Comfort switch control element [1]
With neon lamp.
For 2-wire insert 6815 U.
For relay insert 6816 U.
Adjustable operating mode: semiautomatic mode, automatic switch-on, manual switch-off.
Adjustable operating mode: automatic timer, manual switch-on, automatic (timer and motion-controlled) switch-off.
Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off.
Push switch function possible at all times.
Switch-off delay: 1 to 10 min., adjustable.
Surveillance density: 9 sectors with 28 switching segments.
Detection range: frontal: 5 m, lateral: 3 m
Detection angle: 170 °
Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation
Mounting height: 0.8 m - 1.2 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

Busch-Duro 2000® SI

212	white	**6815-212**	6800-0-2271	1/10	19

Reflex SI

214	alpine white	**6815-214-500**	6800-0-2622	1/10	19

1) Please order the respective flush mounted insert separately.

Product	Article-No.	Order-No.	Pack/Qty	PG

Busch-Comfort switch control element [1]
With neon lamp.
For 2-wire insert 6815 U.
For relay insert 6816 U.
Adjustable operating mode: semiautomatic mode, automatic switch-on, manual switch-off.
Adjustable operating mode: automatic timer, manual switch-on, automatic (timer and motion-controlled) switch-off.
Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off.
Push switch function possible at all times.
Switch-off delay: 1 to 10 min., adjustable.
Surveillance density: 9 sectors with 28 switching segments.
Detection range: frontal: 5 m, lateral: 3 m
Detection angle: 170 °
Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation
Mounting height: 0.8 m - 1.2 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

alpha

20	platinum [2]	**6815-20**	6800-0-2273	1/10	19
21	bronze [2]	**6815-21**	6800-0-2274	1/10	19
22G	ivory	**6815-22G**	6800-0-2275	1/10	19
24	studio white matt	**6815-24**	6800-0-2276	1/10	19
24G	studio white	**6815-24G**	6800-0-2277	1/10	19
260	palladium [2]	**6815-260**	6800-0-2282	1/10	19
266	titanium [2]	**6815-266**	6800-0-2283	1/10	19

1) Please order the respective flush mounted insert separately.
2) Surface painted.

Busch-Comfort switch control element [1]
With neon lamp.
For 2-wire insert 6815 U.
For relay insert 6816 U.
Adjustable operating mode: semiautomatic mode, automatic switch-on, manual switch-off.
Adjustable operating mode: automatic timer, manual switch-on, automatic (timer and motion-controlled) switch-off.
Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off.
Push switch function possible at all times.
Switch-off delay: 1 to 10 min., adjustable.
Surveillance density: 9 sectors with 28 switching segments.
Detection range: frontal: 5 m, lateral: 3 m
Detection angle: 170 °
Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation
Mounting height: 0.8 m - 1.2 m
Protection class (Sensor): IP 20
Temperature range (Device): 0 °C to 35 °C

future® linear

81	anthracite	**6815-81**	6800-0-2284	1/10	19
82	ivory white	**6815-82**	6800-0-2285	1/10	19
83	aluminium silver [2]	**6815-83**	6800-0-2342	1/10	19
84	studio white	**6815-84**	6800-0-2286	1/10	19
884	studio white, matt [2]	**6815-884**	6800-0-2499	1/10	19
885	black matt [2]	**6815-885**	6800-0-2501	1/10	19

solo®

82	ivory white	**6815-82**	6800-0-2285	1/10	19
84	studio white	**6815-84**	6800-0-2286	1/10	19
803	grey metallic [2]	**6815-803**	6800-0-2481	1/10	19
815	yellow	**6815-815**	6800-0-2480	1/10	19

Busch-axcent®

84	studio white	**6815-84**	6800-0-2286	1/10	19
896	chalet-white	**6815-896-500**	6800-0-2620	1/10	19

carat®

81	anthracite	**6815-81**	6800-0-2284	1/10	19
82	ivory white	**6815-82**	6800-0-2285	1/10	19
84	studio white	**6815-84**	6800-0-2286	1/10	19

pure stainless steel [2]

866	stainless steel	**6815-866**	6800-0-2345	10/10	19

1) Please order the respective flush mounted insert separately.
2) Surface painted.

Twilight switch

Product		Article-No.	Order-No.	Pack/Qty	PG
		Twilight switch [1] [2] With labelling field. Labelling field 57.8 x 9.8 mm Switch-on/switch-off delay: approx. 3-6 min non-adjustable. Rated voltage: 230 V~ Rated frequency: 50 Hz Rated current: 16 AX Rated power: 3680 W/VA Brightness limit value: 3 Lux - 500 Lux nominal Protection class (Device): IP 44 Temperature range (Device): -35 °C to 55 °C			
53	grey	**2240 W-53**	6500-0-0791	1/10	19
54	alpine white	**2240 W-54**	6500-0-0792	1/10	19

1) See labelling sheets 1799-13 and labelling software.
2) Labelling strip non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty	PG